

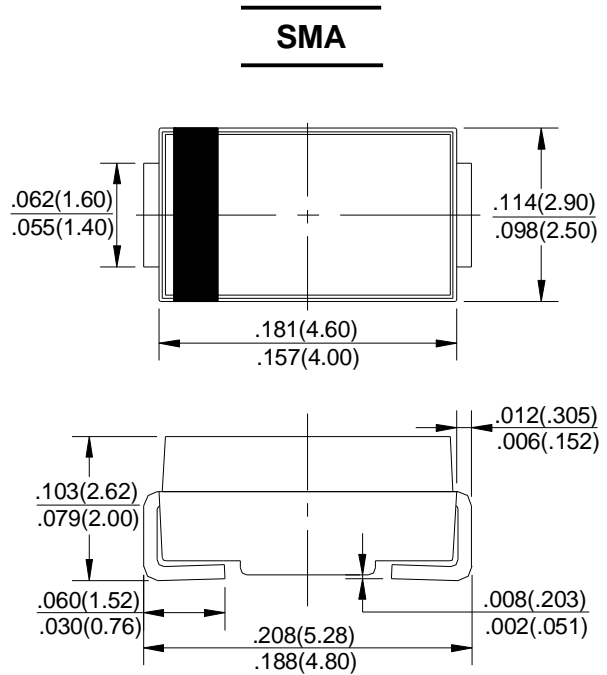
<b>SURFACE MOUNT GLASS ULTRA FAST RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Amperes</b>
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### FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

### MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Indicated by cathode band
- Weight: 0.002 ounces, 0.064 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	UF1A	UF1B	UF1D	UF1G	UF1J	UF1K	UF1M	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	210	420	580	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	300	600	800	1000	V	
Maximum Average Forward Rectified Current @TA=55 °C	I(AV)	1.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30							A	
Peak Forward Voltage at 1.0A DC(Note1)	VF	1.0		1.3		1.7			V	
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	5.0				100				uA
Maximum Reverse Recovery Time(Note 1)	TRR	50				75				nS
Typical Junction Capacitance (Note2)	CJ	20				10				pF
Typical Thermal Resistance (Note3)	RθJA	25							°C/W	
Operating Temperature Range	TJ	-50 to +150							°C	
Storage Temperature Range	TSTG	-50 to +150							°C	

NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction of ambient.

FIG. 1 – FORWARD CURRENT DERATING CURVE

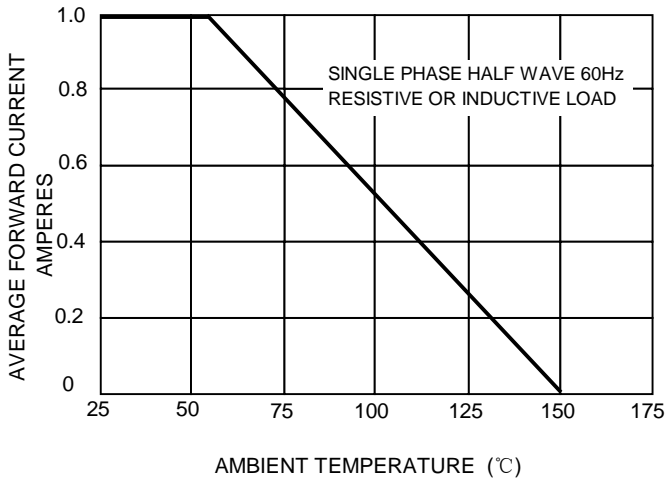


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

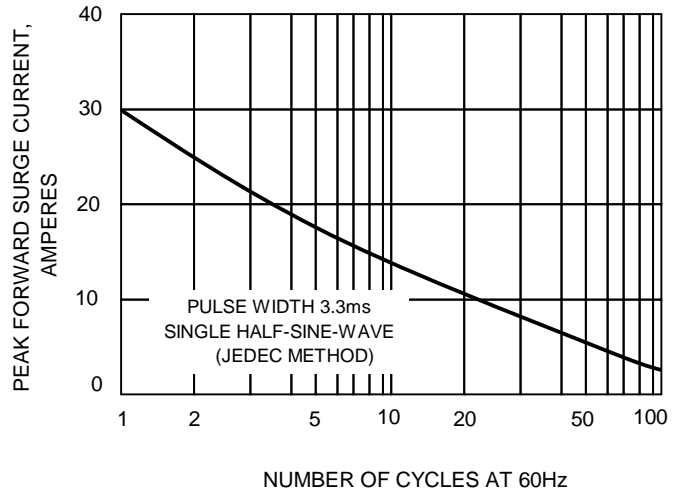


FIG.3 – TYPICAL JUNCTION CAPACITANCE

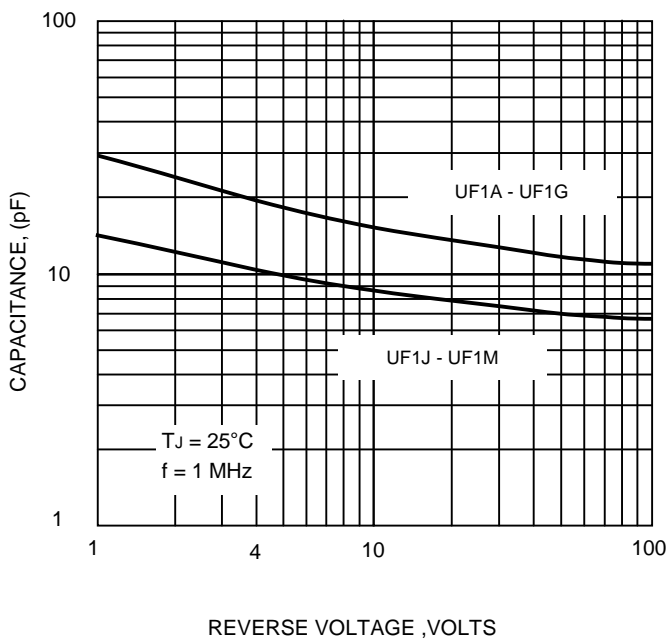


FIG.4-TYPICAL FORWARD CHARACTERISTICS

